CRF Errors Corrected by the STIC Systems Branch

Serial Number: 09/284,327

CRF Processing Date: 10/4/2001

Edited by:

Verified by: _____ (STIC staf

ENTERED

- [ ] Changed a file from non-ASCII to ASCII
- [ ] Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- [ ] Edited a format error in the Current Application Data section, specifically: _____
- [ ] Edited the Current Application Data section with the actual current number. The number inputted by the applicant was [ ] the prior application data; or [ ] other _____
- [ ] Added the mandatory heading and subheadings for "Current Application Data".
- [ ] Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- [ ] Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____
- [ ] Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____
- [ ] Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____
- [ ] Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- [ ] Inserted colons after headings/subheadings. Headings edited included: _____
- [ ] Deleted extra, invalid, headings used by an applicant, specifically: _____
- [ ] Deleted: [ ] non-ASCII "garbage" at the beginning/end of files; [ ] secretary initials/filename at end of file; [ ] page numbers throughout text; [ ] other invalid text, such as _____
- [ ] Inserted mandatory headings, specifically: _____
- [ ] Corrected an obvious error in the response, specifically: _____
- [ ] Edited identifiers where upper case is used but lower case is required, or vice versa.
- [ ] Corrected an error in the Number of Sequences field, specifically: _____
- [ ] A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- [ ] Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- [x] Other: Corrected <1607 and <1707 numeric identifiers _____

_____

_____

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/284,327

DATE: 10/04/2001
TIME: 12:43:06

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF3\10042001\I284327.raw

```
      3 <110> APPLICANT: Genencor International, Inc.
      6 <120> TITLE OF INVENTION: Novel EGIII-Like Enzymes, DNA Encoding
      7       Such Enzymes and Methods for Producing Such Enzymes
     10 <130> FILE REFERENCE: GC516-2-PCT
C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/284,327
C--> 13 <141> CURRENT FILING DATE: 1999-04-10
     15 <160> NUMBER OF SEQ ID NOS: 41
     17 <170> SOFTWARE: FastSEQ for Windows Version 3.0
     19 <210> SEQ ID NO: 1
     20 <211> LENGTH: 5
     21 <212> TYPE: PRT
     22 <213> ORGANISM: Artificial Sequence
     24 <220> FEATURE:
     25 <223> OTHER INFORMATION: Synthetic
     27 <400> SEQUENCE: 1
     28   Asn Asn Leu Trp Gly
     29    1                 5
     31 <210> SEQ ID NO: 2
     32 <211> LENGTH: 5
     33 <212> TYPE: PRT
     34 <213> ORGANISM: Artificial Sequence
     36 <220> FEATURE:
     37 <223> OTHER INFORMATION: Synthetic
     39 <400> SEQUENCE: 2
     40   Glu Leu Met Ile Trp
     41    1                 5
     43 <210> SEQ ID NO: 3
     44 <211> LENGTH: 6
     45 <212> TYPE: PRT
     46 <213> ORGANISM: Artificial Sequence
     48 <220> FEATURE:
     49 <223> OTHER INFORMATION: Synthetic
     51 <400> SEQUENCE: 3
     52   Gly Thr Glu Pro Phe Thr
     53    1                 5
     55 <210> SEQ ID NO: 4
     56 <211> LENGTH: 5
     57 <212> TYPE: PRT
     58 <213> ORGANISM: Artificial Sequence
     60 <220> FEATURE:
     61 <223> OTHER INFORMATION: Synthetic
     63 <400> SEQUENCE: 4
     64   Ser Val Lys Ser Tyr
     65    1                 5
     67 <210> SEQ ID NO: 5
     68 <211> LENGTH: 6
     69 <212> TYPE: PRT
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RAW SEQUENCE LISTING   DATE: 10/04/2001
PATENT APPLICATION: US/09/284,327   TIME: 12:43:06

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF3\10042001\I284327.raw

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 70 <213> ORGANISM: Artificial Sequence
 72 <220> FEATURE:
 73 <223> OTHER INFORMATION: Synthetic
 75 <400> SEQUENCE: 5
 76  Lys Asn Phe Phe Asn Tyr
 77    1               5
 79 <210> SEQ ID NO: 6
 80 <211> LENGTH: 702
 81 <212> TYPE: DNA
 82 <213> ORGANISM: T. reesei
 84 <400> SEQUENCE: 6
 85  atgaagttcc ttcaagtcct ccctgccctc ataccggccg ccctggccca aaccagctgt      60
 86  gaccagtggg caaccttcac tggcaacggc tacacagtca gcaacaacct ttggggagca     120
 87  tcagccggct ctggatttgg ctgcgtgacg gcggtatcgc tcagcggcgg ggcctcctgg     180
 88  cacgcagact ggcagtggtc cggcggccag aacaacgtca agtcgtacca gaactctcag     240
 89  attgccattc cccagaagag gaccgtcaac agcatcagca gcatgcccac cactgccagc     300
 90  tggagctaca gcgggagcaa catccgcgct aatgttgcgt atgacttgtt caccgcagcc     360
 91  aacccgaatc atgtcacgta ctcgggagac tacgaactca tgatctggct tggcaaatac     420
 92  ggcgatattg ggccgattgg gtcctcacag ggaacagtca acgtcggtgg ccagagctgg     480
 93  acgctctact atggctacaa cggagccatg caagtctatt cctttgtggc ccagaccaac     540
 94  actaccaact acagcggaga tgtcaagaac ttcttcaatt atctccgaga caataaagga     600
 95  tacaacgctg caggccaata tgttcttagc taccaatttg gtaccgagcc cttcacgggc     660
 96  agtggaactc tgaacgtcgc atcctggacc gcatctatca ac                       702
 98 <210> SEQ ID NO: 7
 99 <211> LENGTH: 232
100 <212> TYPE: PRT
101 <213> ORGANISM: T. reesei
103 <400> SEQUENCE: 7
104  Met Lys Phe Leu Gln Val Leu Pro Ala Leu Ile Pro Ala Ala Leu Ala
105    1               5                  10                  15
106  Gln Thr Ser Cys Asp Gln Trp Ala Thr Phe Thr Gly Asn Gly Tyr Thr
107                20                  25                  30
108  Val Ser Asn Asn Leu Trp Gly Ala Ser Ala Gly Ser Gly Phe Gly Cys
109                35                  40                  45
110  Val Thr Ala Val Ser Leu Ser Gly Gly Ala His Ala Asp Trp Gln Trp
111           50                  55                  60
112  Ser Gly Gly Gln Asn Asn Val Lys Ser Tyr Gln Asn Ser Gln Ile Ala
113   65                  70                  75                  80
114  Ile Pro Gln Lys Arg Thr Val Asn Ser Ile Ser Ser Met Pro Thr Thr
115                85                  90                  95
116  Ala Ser Trp Ser Tyr Ser Gly Ser Asn Ile Arg Ala Asn Val Ala Tyr
117                100                 105                 110
118  Asp Leu Phe Thr Ala Ala Asn Pro Asn His Val Thr Tyr Ser Gly Asp
119           115                 120                 125
120  Tyr Glu Leu Met Ile Trp Leu Gly Lys Tyr Gly Asp Ile Gly Pro Ile
121           130                 135                 140
122  Gly Ser Ser Gln Gly Thr Val Asn Val Gly Gly Gln Ser Trp Thr Leu
123   145                 150                 155                 160
124  Tyr Tyr Gly Tyr Asn Gly Ala Met Gln Val Tyr Ser Phe Val Ala Gln
```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/284,327

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF3\10042001\I284327.raw

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125                    165              170              175
126  Thr Asn Thr Thr Asn Tyr Ser Gly Asp Val Lys Asn Phe Phe Asn Tyr
127          180              185              190
128  Leu Arg Asp Asn Lys Gly Tyr Asn Ala Ala Gly Gln Tyr Val Leu Ser
129          195              200              205
130  Tyr Gln Phe Gly Thr Glu Pro Phe Thr Gly Ser Gly Thr Leu Asn Val
131          210              215              220
132  Ala Ser Trp Thr Ala Ser Ile Asn
133  225              230
135  <210> SEQ ID NO: 8
136  <211> LENGTH: 234
137  <212> TYPE: PRT
138  <213> ORGANISM: T. reesei
140  <400> SEQUENCE: 8
141  Met Lys Phe Leu Gln Val Leu Pro Ala Leu Ile Pro Ala Ala Leu Ala
142   1               5               10              15
143  Gln Thr Ser Cys Asp Gln Trp Ala Thr Phe Thr Gly Asn Gly Tyr Thr
144          20              25              30
145  Val Ser Asn Asn Leu Trp Gly Ala Ser Ala Gly Ser Gly Phe Gly Cys
146          35              40              45
147  Val Thr Ala Val Ser Leu Ser Gly Gly Ala Ser Trp His Ala Asp Trp
148          50              55              60
149  Gln Trp Ser Gly Gly Gln Asn Asn Val Lys Ser Tyr Gln Asn Ser Gln
150  65              70              75              80
151  Ile Ala Ile Pro Gln Lys Arg Thr Val Asn Ser Ile Ser Ser Met Pro
152          85              90              95
153  Thr Thr Ala Ser Trp Ser Tyr Ser Gly Ser Asn Ile Arg Ala Asn Val
154          100             105             110
155  Ala Tyr Asp Leu Phe Thr Ala Ala Asn Pro Asn His Val Thr Tyr Ser
156          115             120             125
157  Gly Asp Tyr Glu Leu Met Ile Trp Leu Gly Lys Tyr Gly Asp Ile Gly
158          130             135             140
159  Pro Ile Gly Ser Ser Gln Gly Thr Val Asn Val Gly Gly Gln Ser Trp
160  145             150             155             160
161  Thr Leu Tyr Tyr Gly Tyr Asn Gly Ala Met Gln Val Tyr Ser Phe Val
162          165             170             175
163  Ala Gln Thr Asn Thr Thr Asn Tyr Ser Gly Asp Val Lys Asn Phe Phe
164          180             185             190
165  Asn Tyr Leu Arg Asp Asn Lys Gly Tyr Asn Ala Ala Gly Gln Tyr Val
166          195             200             205
167  Leu Ser Tyr Gln Phe Gly Thr Glu Pro Phe Thr Gly Ser Gly Thr Leu
168          210             215             220
169  Asn Val Ala Ser Trp Thr Ala Ser Ile Asn
170  225              230
172  <210> SEQ ID NO: 9
173  <211> LENGTH: 234
174  <212> TYPE: PRT
175  <213> ORGANISM: H. schweinitzii
177  <400> SEQUENCE: 9
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/284,327

DATE: 10/04/2001
TIME: 12:43:06

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF3\10042001\I284327.raw

```
178   Met Lys Phe Leu Gln Val Leu Pro Ala Ile Leu Pro Ala Ala Leu Ala
179    1               5                  10                 15
180   Gln Thr Ser Cys Asp Gln Tyr Ala Thr Phe Ser Gly Asn Gly Tyr Ile
181              20                  25                 30
182   Val Ser Asn Asn Leu Trp Gly Ala Ser Ala Gly Ser Gly Phe Gly Cys
183          35                  40                 45
184   Val Thr Ser Val Ser Leu Asn Gly Ala Ala Ser Trp His Ala Asp Trp
185          50                  55                 60
186   Gln Trp Ser Gly Gly Gln Asn Asn Val Lys Ser Tyr Gln Asn Val Gln
187    65                  70                 75                 80
188   Ile Asn Ile Pro Gln Lys Arg Thr Val Asn Ser Ile Gly Ser Met Pro
189                  85                  90                 95
190   Thr Thr Ala Ser Trp Ser Tyr Ser Gly Ser Asp Ile Arg Ala Asn Val
191              100                 105                110
192   Ala Tyr Asp Leu Phe Thr Ala Ala Asn Pro Asn His Val Thr Tyr Ser
193          115                 120                125
194   Gly Asp Tyr Glu Leu Met Ile Trp Leu Gly Lys Tyr Gly Asp Ile Gly
195          130                 135                140
196   Pro Ile Gly Ser Ser Gln Gly Thr Val Asn Val Gly Gly Gln Thr Trp
197   145                 150                 155                160
198   Thr Leu Tyr Tyr Gly Tyr Asn Gly Ala Met Gln Val Tyr Ser Phe Val
199              165                 170                175
200   Ala Gln Ser Asn Thr Thr Ser Tyr Ser Gly Asp Val Lys Asn Phe Phe
201              180                 185                190
202   Asn Tyr Leu Arg Asp Asn Lys Gly Tyr Asn Ala Gly Gly Gln Tyr Val
203          195                 200                205
204   Leu Ser Tyr Gln Phe Gly Thr Glu Pro Phe Thr Gly Ser Gly Thr Leu
205          210                 215                220
206   Asn Val Ala Ser Trp Thr Ala Ser Ile Asn
207   225                 230
209   <210> SEQ ID NO: 10
210   <211> LENGTH: 259
211   <212> TYPE: PRT
212   <213> ORGANISM: A. aculeatus
214   <400> SEQUENCE: 10
215   Met Lys Ala Phe His Leu Leu Ala Ala Leu Ala Gly Ala Ala Val Ala
216    1               5                  10                 15
217   Gln Gln Ala Gln Leu Cys Asp Gln Tyr Ala Thr Tyr Thr Gly Gly Val
218              20                  25                 30
219   Tyr Thr Ile Asn Asn Asn Leu Trp Gly Lys Asp Ala Gly Ser Gly Ser
220          35                  40                 45
221   Gln Cys Thr Thr Val Asn Ser Ala Ser Ser Ala Gly Thr Ser Trp Ser
222          50                  55                 60
223   Thr Lys Trp Asn Trp Ser Gly Gly Glu Asn Ser Val Lys Ser Tyr Ala
224    65                  70                 75                 80
225   Asn Ser Gly Leu Thr Phe Asn Lys Lys Leu Val Ser Gln Ile Ser Gln
226              85                  90                 95
227   Ile Pro Thr Thr Ala Arg Trp Ser Tyr Asp Asn Thr Gly Ile Arg Ala
228          100                 105                110
```

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                Input Set : A:\PTO.AMC.txt
                Output Set: N:\CRF3\10042001\I284327.raw

229   Asp Val Ala Tyr Asp Leu Phe Thr Ala Ala Asp Ile Asn His Val Thr
230           115             120             125
231   Trp Ser Gly Asp Tyr Glu Leu Met Ile Trp Leu Ala Arg Tyr Gly Gly
232           130             135             140
233   Val Gln Pro Ile Gly Ser Gln Ile Ala Thr Ala Thr Val Asp Gly Gln
234   145             150             155                     160
235   Thr Trp Glu Leu Trp Tyr Gly Ala Asn Gly Ser Gln Lys Thr Tyr Ser
236               165             170             175
237   Phe Val Ala Pro Thr Pro Ile Thr Ser Phe Gln Gly Asp Val Asn Asp
238           180             185             190
239   Phe Phe Lys Tyr Leu Thr Gln Asn His Gly Phe Pro Ala Ser Ser Gln
240           195             200             205
241   Tyr Leu Ile Thr Leu Gln Phe Gly Thr Glu Pro Phe Thr Gly Gly Pro
242           210             215             220
243   Ala Thr Leu Ser Val Ser Asn Trp Ser Ala Ser Val Gln Gln Ala Gly
244   225             230             235                     240
245   Phe Glu Pro Trp Gln Asn Gly Ala Gly Leu Ala Val Asn Ser Phe Ser
246               245             250             255
247   Ser Thr Val
250   <210> SEQ ID NO: 11
251   <211> LENGTH: 239
252   <212> TYPE: PRT
253   <213> ORGANISM: A. kawachii
255   <400> SEQUENCE: 11
256   Met Lys Leu Ser Met Thr Leu Ser Leu Phe Ala Ala Thr Ala Met Gly
257   1               5               10              15
258   Gln Thr Met Cys Ser Gln Tyr Asp Ser Ala Ser Ser Pro Pro Tyr Ser
259           20              25              30
260   Val Asn Gln Asn Leu Trp Gly Glu Tyr Gln Gly Thr Gly Ser Gln Cys
261           35              40              45
262   Val Tyr Val Asp Lys Leu Ser Ser Ser Gly Ala Ser Trp His Thr Lys
263           50              55              60
264   Trp Thr Trp Ser Gly Gly Glu Gly Thr Val Lys Ser Tyr Ser Asn Ser
265   65              70              75                      80
266   Gly Leu Thr Phe Asp Lys Lys Leu Val Ser Asp Val Ser Ser Ile Pro
267               85              90              95
268   Thr Ser Val Thr Trp Ser Gln Asp Asp Thr Asn Val Gln Ala Asp Val
269           100             105             110
270   Ser Tyr Asp Leu Phe Thr Ala Ala Asn Ala Asp His Ala Thr Ser Ser
271           115             120             125
272   Gly Asp Tyr Glu Leu Met Ile Trp Leu Ala Arg Tyr Gly Ser Val Gln
273           130             135             140
274   Pro Ile Gly Lys Gln Ile Ala Thr Ala Thr Val Gly Gly Lys Ser Trp
275   145             150             155                     160
276   Glu Val Trp Tyr Gly Thr Ser Thr Gln Ala Gly Ala Glu Gln Lys Thr
277               165             170             175
278   Tyr Ser Phe Val Ala Gly Ser Pro Ile Asn Ser Trp Ser Gly Asp Ile
279               180             185             190
280   Lys Asp Phe Phe Asn Tyr Leu Thr Gln Asn Gln Gly Phe Pro Ala Ser
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VERIFICATION SUMMARY
PATENT APPLICATION: **US/09/284,327**

DATE: 10/04/2001
TIME: 12:43:07

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF3\10042001\I284327.raw**

L:12 M:270 C: Current Application Number differs, Replaced Current Application Number
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date